

## SEQUENCE LISTING

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WILMS, BURKARD

BEST AVAILABLE COPY  
EST AVAILABLE COPY

<120> RECOMBINANT L-N-CARBAMOYLASE FROM ARTHROBACTER  
AURESCENS AND METHOD OF PRODUCING L-AMINO ACIDS  
THEREWITH

<130> RECOMBINANT L-N-CARBAMOYLASE

<140>

<141>

<150> DE 198 14 813.5

<151> 1998-04-02

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 1239

<212> DNA

<213> Arthrobacter aurescens

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<213> *Arthrobacter aurescens*

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35 40 45

Lys Ala Ala Ala Leu Ser Val Arg Glu Asp Ala Leu Gly Asn Ile Ile  
50 55 60

Gly Arg Arg Glu Gly Thr Asp Pro Glu Leu Pro Ala Ile Ala Val Gly  
65 70 75 80

Ser His Phe Asp Ser Val Arg Asn Gly Gly Met Phe Asp Gly Thr Ala  
85 90 95

Gly Val Val Cys Ala Leu Glu Ala Ala Arg Val Met Leu Glu Asn Gly  
100 105 110

Tyr Val Asn Arg His Pro Phe Glu Phe Ile Ala Ile Val Glu Glu Glu  
115 120 125

Gly Ala Arg Phe Ser Ser Gly Met Leu Gly Gly Arg Ala Ile Ala Gly

130

135

140

Leu Val Ala Asp Arg Glu Leu Asp Ser Leu Val Asp Glu Asp Gly Val

145

150

155

160

Ser Val Arg Gln Ala Ala Thr Ala Phe Gly Leu Lys Pro Gly Glu Leu

165

170

175

Gln Ala Ala Ala Arg Ser Ala Ala Asp Leu Arg Ala Phe Ile Glu Leu

180

185

190

His Ile Glu Gln Gly Pro Ile Leu Glu Gln Glu Gln Ile Glu Ile Gly

195

200

205

Val Val Thr Ser Ile Val Gly Val Arg Ala Leu Arg Val Ala Val Lys

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215

220

Gly Arg Ser Asp His Ala Gly Thr Thr Pro Met His Leu Arg Gln Asp

225

230

235

240

Ala Leu Val Pro Ala Ala Leu Met Val Arg Glu Val Asn Arg Phe Val

245

250

255

Asn Glu Ile Ala Asp Gly Thr Val Ala Thr Val Gly His Leu Thr Val

260

265

270

Ala Pro Gly Gly Gly Asn Gln Val Pro Gly Glu Val Asp Phe Thr Leu

275

280

285

Asp Leu Arg Ser Pro His Glu Glu Ser Leu Arg Val Leu Ile Asp Arg

290

295

300

Ile Ser Val Met Val Gly Glu Val Ala Ser Gln Ala Gly Val Ala Ala

305

310

315

320

Asp Val Asp Glu Phe Phe Asn Leu Ser Pro Val Gln Leu Ala Pro Thr

325

330

335

Met Val Asp Ala Val Arg Glu Ala Ala Ser Ala Leu Gln Phe Thr His

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345

350

Arg Asp Ile Ser Ser Gly Ala Gly His Asp Ser Met Phe Ile Ala Gln

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360

365

Val Thr Asp Val Gly Met Val Phe Val Pro Ser Arg Ala Gly Arg Ser

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375

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His Val Pro Glu Glu Trp Thr Asp Phe Asp Asp Leu Arg Lys Gly Thr

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Glu Val Val Leu Arg Val Met Lys Ala Leu Asp Arg

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410